

FIG. 1A

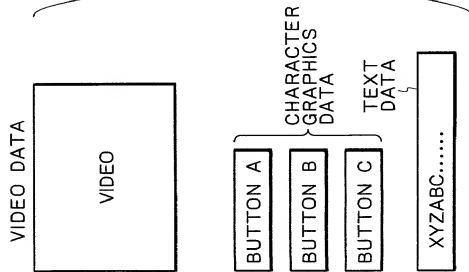


FIG. 1B

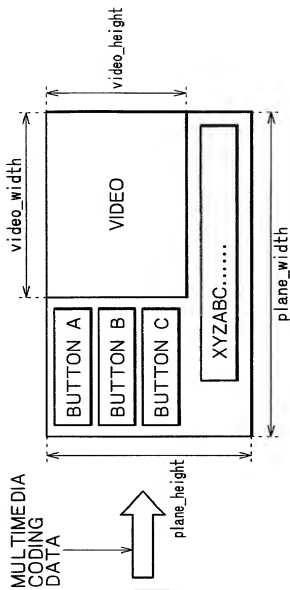
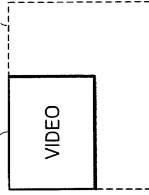


FIG. 2A

RE-ENCODED
VIDEO PICTURE
FRAME



ORIGINAL VIDEO
PICTURE FRAME

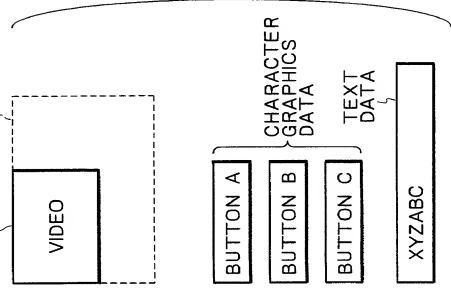
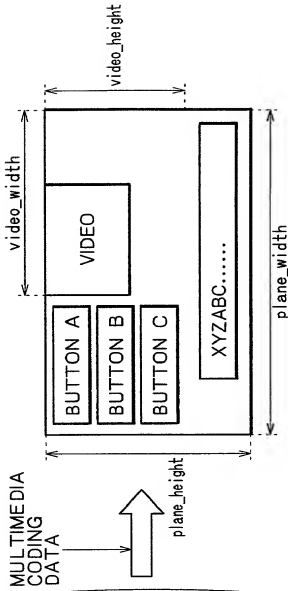


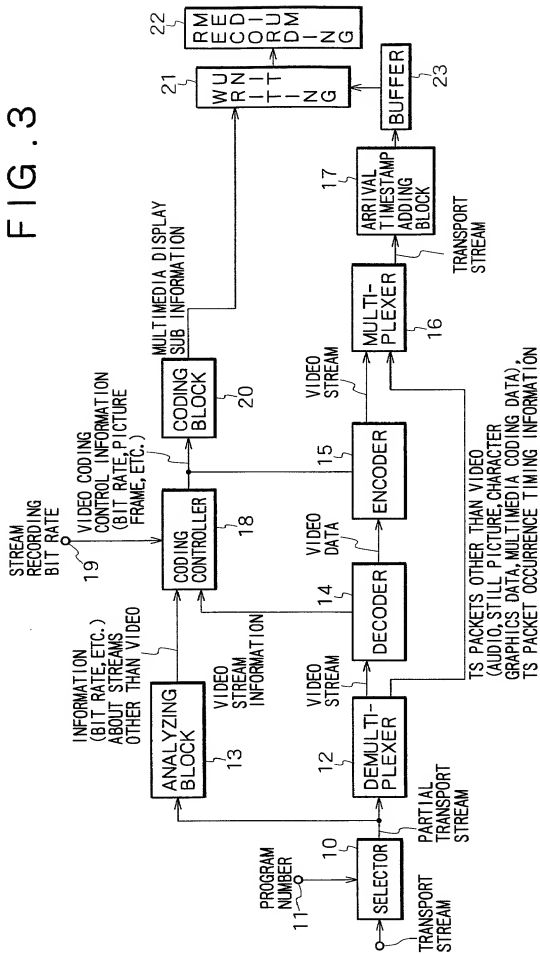
FIG. 2B



MULTIMEDIA
CODING
DATA



plane_height



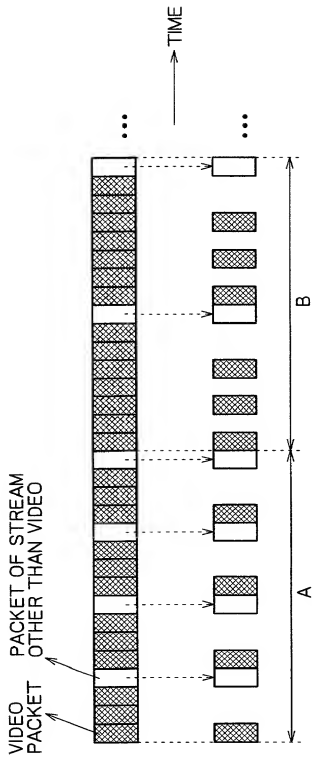


FIG. 4A

FIG. 4B

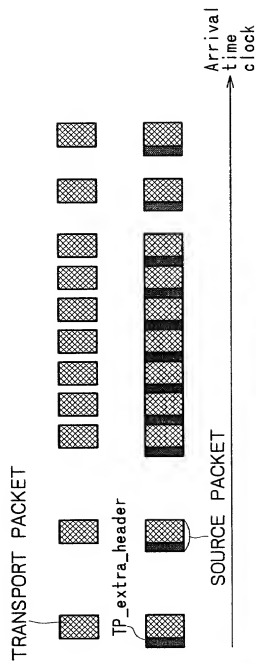


FIG. 5A

FIG. 5B



FIG. 5C

FIG. 6

MISMATCH FLAG mismatch_MMinfo_flag
RE-ENCODED FLAG Re_encoded_flag
FRAME SIZE CHANGE FLAG changed_frame_size_flag
ORIGINAL HORIZONTAL SIZE original_horizontal_size
ORIGINAL VERTICAL SIZE original_vertical_size
ORIGINAL DISPLAY ASPECT RATIO original_display_aspect_ratio

MULTIMEDIA
DISPLAY
SUB
INFORMATION

FIG.7

Syntax	No. of bits	Mnemonic
ProgramInfo() {		
length	32	uimsbf
reseved_for_word_align	8	bslbf
num_of_program_sequences	8	uimsbf
for (i=0; i<num_of_program_sequences; i++) {		
SPN_program_sequences_start	32	uimsbf
program_map_PID	16	bslbf
num_of_streams_in_ps	8	uimsbf
num_of_groups	8	uimsbf
for (stream_index=0;		
stream_index<num_of_streams_in_ps;		
stream_index++) {		
stream_PID	16	uimsbf
StreamCodingInfo()		
}		
if (num_of_groups>1) {		
for (i=0; i<num_of_groups; i++) {		
num_of_streams_in_group	8	uimsbf
for (k=0; k<num_of_streams_in_group; k++) {		
stream_index	8	uimsbf
}		
if (num_of_streams_in_group%2==0) {		
reserved_for_word_align	8	bslbf
}		
}		
}		
}		

EXAMPLE OF ProgramInfo() SYNTAX

FIG. 8

Syntax	No. of bits	Mnemonic
StreamCodingInfo() {		
length	8	bslbf
stream_coding_type	8	uimsbf
if (stream_coding_type==0x02) {		
video_format	4	uimsbf
frame_rate	4	uimsbf
display_aspect_ratio	4	uimsbf
reserved_for_word_align	2	bslbf
cc_flag	1	uimsbf
original_video_format_flag	1	
if (original_video_format_flag==1) {		
original_video_format	4	uimsbf
original_display_aspect_ratio	4	uimsbf
reserved_for_word_align	8	bslbf
}		
} else if (stream_coding_type==0x03// stream_coding_type==0x04// stream_coding_type==0x0F// stream_coding_type==0x80// stream_coding_type==0x81) {		
audio_presentation_type	4	uimsbf
sampling_frequency	4	uimsbf
reserved_for_word_align	8	bslbf
}		
}		

StreamCodingInfo() SYNTAX (ANOTHER EXAMPLE
OF MULTIMEDIA DISPLAY SUB INFORMATION)

stream_coding_type

stream_coding_type	Meaning
0x00-0x01	reserved for future use
0x02	MPEG-1 or MPEG-2 video stream
0x03	MPEG-1 audio
0x04	MPEG-2 multi-channel audio, backward compatible to MPEG-1
0x05	reserved for future use
0x06	Teletext defined in SESF or DVB or Subtitle defined in ISDB
0x07-0x09	reserved for future use
0x0A	ISO/IEC 13818-6 type A
0x0B	ISO/IEC 13818-6 type B
0x0C	ISO/IEC 13818-6 type C
0x0D	ISO/IEC 13818-6 type D
0x0E	reserved for future use
0x0F	MPEG-2 AAC audio with ADTS transport syntax
0x10-0x7F	reserved for future use
0x80	SESF LPCM audio
0x81	Dolby AC-3 audio
0x82-0xFF	reserved for future use

FIG. 10

video_format

video_format	Meaning	Video standard
0	480i	ITU-R BT.601-4
1	576i	ITU-R BT.601-4
2	480p	SMPTE 293M
3	1080i	SMPTE 274M
4	720p	SMPTE 296M
5-14	reserved for future use	
15	No information	

FIG. 11

frame_rate

frame_rate	Meaning
0	reserved for future use
1	24 000/1001 (23.976...)
2	24
3	25
4	30 000/1001 (29.97...)
5	30
6	50
7	60 000/1001 (59.94...)
8	60
9-14	reserved for future use
15	No information

FIG. 12

display_aspect_ratio

display_aspect_ratio	Meaning
0	reserved for future use
1	reserved for future use
2	4:3 display aspect ratio
3	16:9 display aspect ratio
4	2.21:1 display aspect ratio
5-14	reserved for future use
15	No information

FIG. 13

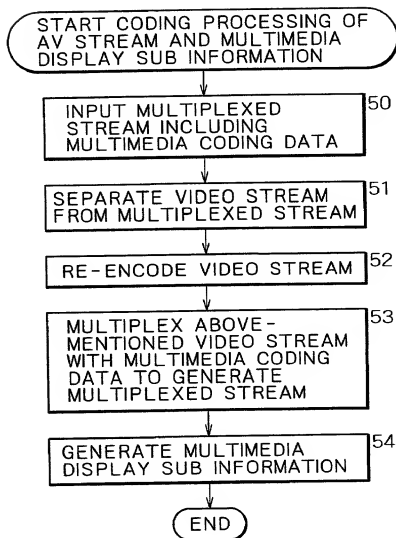


FIG. 14

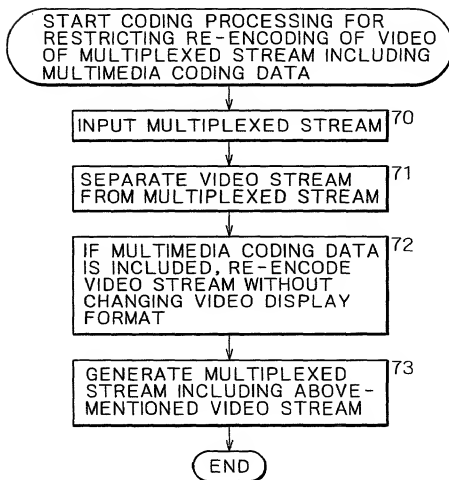


FIG. 15

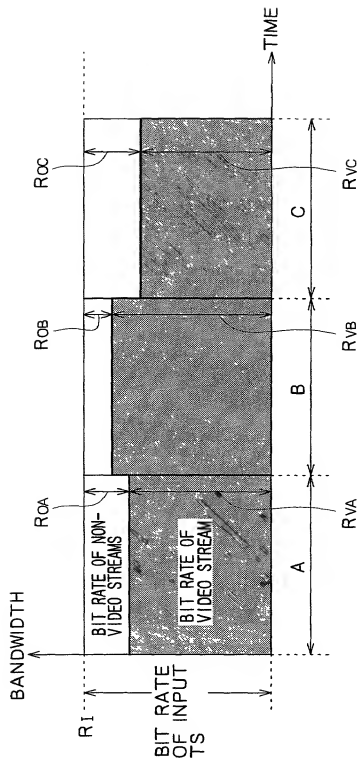


FIG. 16

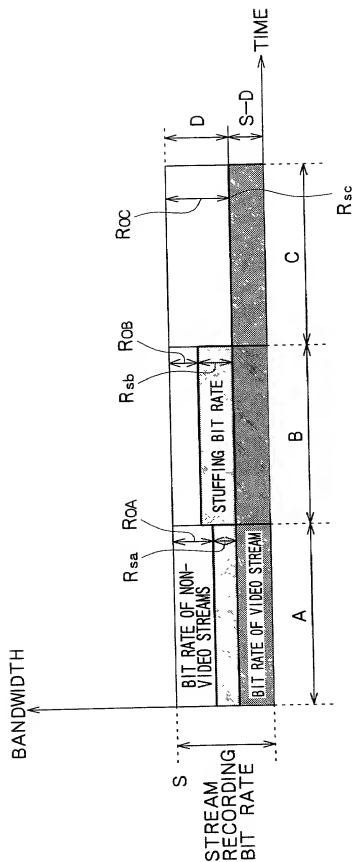


FIG. 17

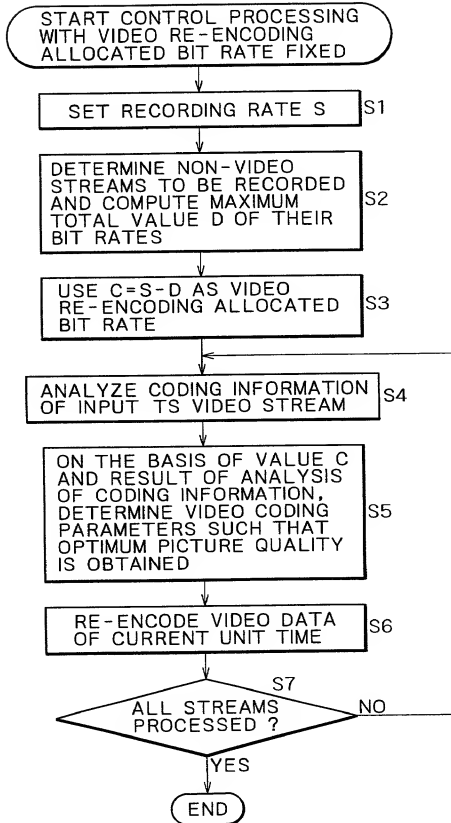


FIG. 18

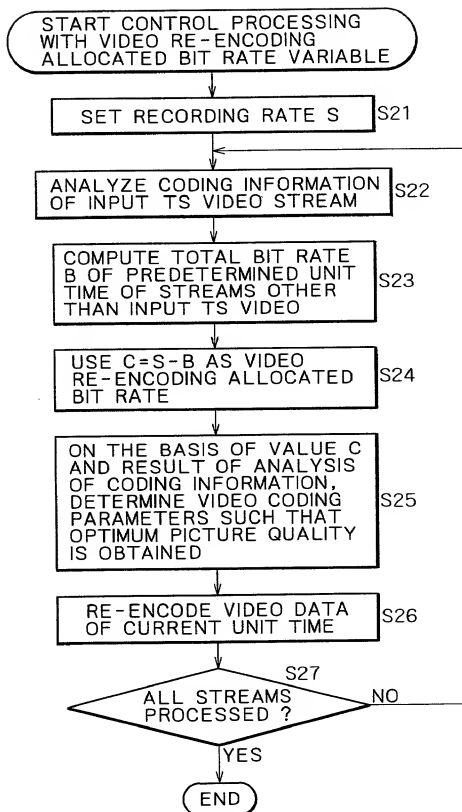


FIG. 19

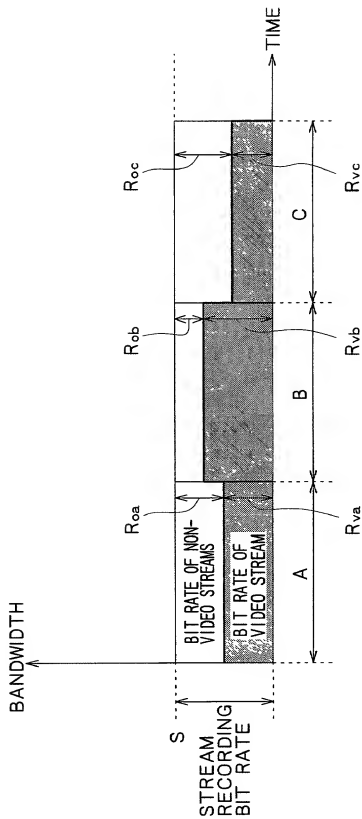


FIG. 20

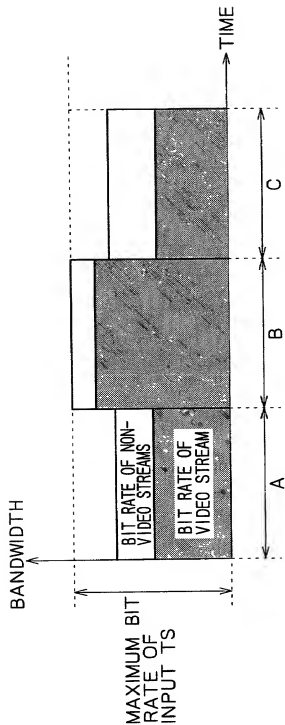


FIG. 21

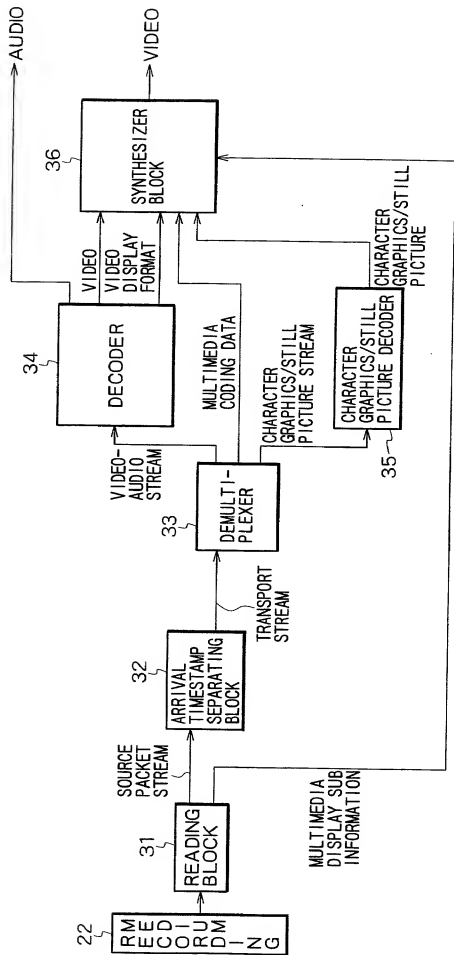


FIG. 22A

RE-ENCODED
VIDEO PICTURE
FRAME

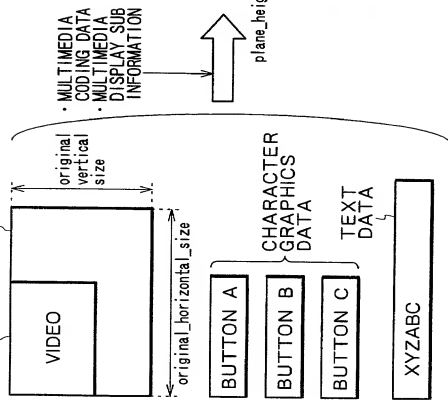


FIG. 22B

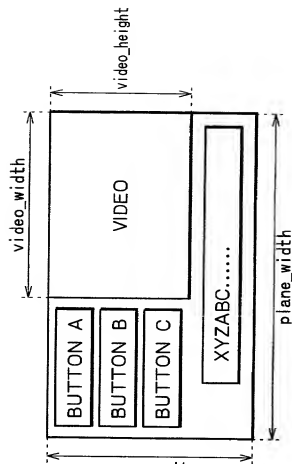


FIG. 24

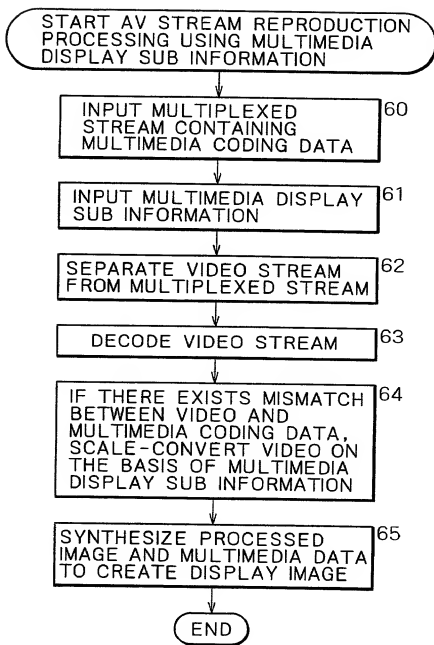


FIG. 25

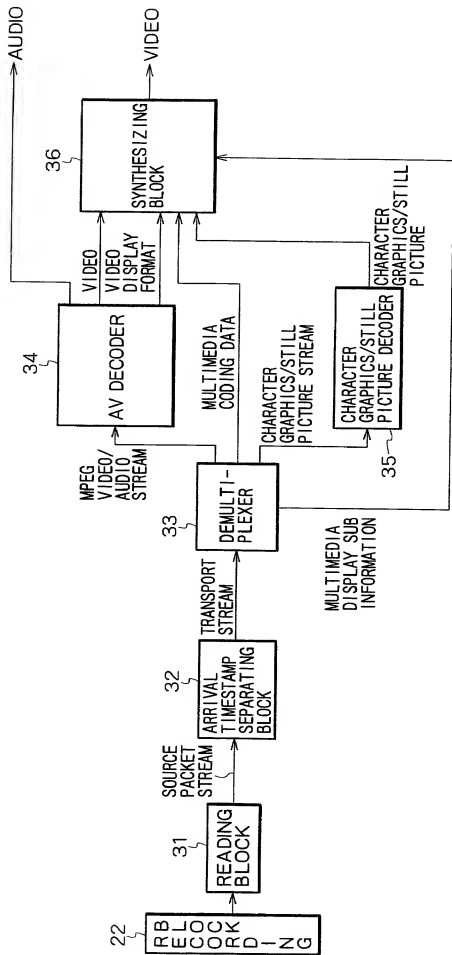


FIG. 26

